SolarX|Works

Get Cold, Anywhere

Meet SolarX|Works

We are a collection of cold storage people and engineers with a background in the solar industry. Cold is a part of very DNA. Simply put - we understand the importance of consistent and reliable refrigeration.

We founded **SolarX|Works** as an applied solar company focused on localized, real world solutions which improve the quality of life for Earth's citizens. We do that while helping you reduce cost, improve access to energy, and increase revenue.

Our focus isn't like other solar refrigeration companies, who want to sell you an expensive container or box with solar panels and some sort of retrofitted system to blow cold air. We approached this differently—creating a flexible, custom designed solution that is built to pre-cool (something like this?)

By engineering our products to cold chain standards, we deliver the most efficient and flexible solutions possible.

Meet the xCOLD

Through thoughtful design and smart software our cooling system uses direct current (DC) to maximize energy from solar panels (although other power sources could also be used) to create a cold atmosphere for your storage needs.

Our unit (that yellow box in the picture above) is highly mobile and incredible flexible. It can be run "stacked" or modular - the evaporator can be placed in any space you choose to keep cool and tethered to the control unit by up to 18 meters of flex hose.

- Highly efficient solar-powered refrigeration platform.
- Capable of producing temperatures below 32° F (0° Celsius).
- Designed to prioritize solar but is power-source agnostic (solar, shore-power, generator, battery).
- Can be deployed in 30 minutes.
- Requires only six 300-watt panels to operate.
- Can be configured "stacked" to cool a container or "modular" to cool any other space (like a root cellar) allowing for maximum flexibility.

The xCOLD Modular Industrial Refrigeration Unit
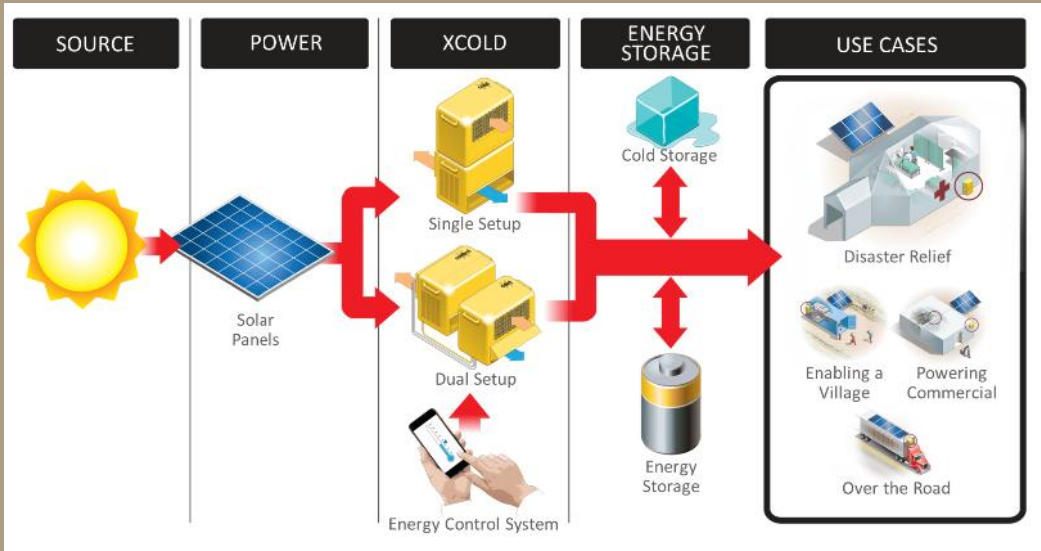
Our Heartbeat is the Sun!

We harvest energy from the sun in the form of direct current (DC) power, apply a little proprietary technology and use that to support several use cases including disaster relief, village enablement, and cold storage.

But the Sun Doesn't Always Shine

Real life happens. We know that. And if your primary mission is to ensure reliable preservation of your produce or protein then you will need to augment ANY solar platform. We engineered our control system to prioritize solar if it's available, but the system can also run off of a battery array, generator, or shore power. There are also thermal mass solutions and handling best practices that SolarX|Works can assist you with to ensure the best possible results.

FUNCTION	UNIT	SPEC	UNIIT	SPEC2
Ambient Dry Bulb temperature	(°F)	95	(°C)	35
Ambient Wet Bulb Temperature	(°F)	65	(°C)	18.3
Functional Lowest Temperature Achieved	(°F)	31	(°C)	0.6
Nominal Cooling Capacity	BTU/h	24,000	BTU/h	24,000
Refrigerant	(-)	R-134a	(-)	R-134a
Evaporator airflow	(CFM)	800	(CM/HR)	1359
Evaporator air inlet DB temperature	(°F)	80	(°C)	26.6
Evaporator air discharge DB temperature	(°F)	63	(°C)	17.2
Evaporator refrigerant inlet temperature	(°F)	39	(°C)	3.9
Evaporator refrigerant discharge temperature	(°F)	73.4	(°C)	23
Evaporating pressure	(PSIA)	49	(PSIA)	49
Evaporator refrigerant mass flow rate	(lbm/hr)	294	(lbm/hr)	294
Condenser airflow	(CFM)	1400	(CM/HR)	2378
Condenser air inlet temperature	(°F)	95	(°C)	35
Condenser air discharge temperature	(°F)	113	(°C)	45
Condenser inlet temperature	(°F)	216	(°C)	102
Condenser discharge temperature	(°F)	102	(°C)	38.9
Evaporator flex line length	(Ft)	20	(M)	6.1
Max height , depth, width	(in)	60 X 18 X 42	(CM)	152.4 X 45.7 X 106.7

What	How Many	How Much
SolarX Works xCOLD	1	$39,000*
12 Hour Battery Array	1	$18,500*

- Does not include shipping, handling or tax, solar panels or container. However **SolarX|Works** can provide both (what we call the balance of system).

- The **SolarX|Works** control system is designed to prioritize the source and distribution of power. We understand that night falls, clouds roll in, and you still need to maintain temperature. One solution to control the "what-ifs" is a **SolarX|Works** Battery Array. 12 battery life assumes running the unit at 100% throughout the night.

SolarX|Works
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